DEPARTMENT of ENVIRONMENTAL SERVICES Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: WASHBURN CORNER POND	Lake Area (ha):	37.84
Town: SPRINGFIELD	Maximum depth (m):	2.9
County: Sullivan	Mean depth (m):	0.8
River Basin: Connecticut	Volume (m³):	305500
Latitude: 43°31'44" N	Relative depth:	0.4
Longitude: 72°04'26" W	Shore configuration:	2.38
Elevation (ft): 990	Areal water load (m/yr)	
Shore length (m): 5200	Flushing rate (yr^{-1}) :	42.90
Watershed area (ha): 2577.0	P retention coeff.:	0.41
% watershed ponded: 0.2	Lake type: natura	l w/dam

BIOLOGICAL:	4 January 1995	30 August 1994
DOM. PHYTOPLANKTON (% TOTAL) #1	NO PHYTOPLANKTON	DINOBRYON 35%
#2	SAMPLES COLLECTED	MICROCYSTIS 25%
#3		
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		4.20
DOM. ZOOPLANKTON (% TOTAL) #1	NO ZOOPLANKTON	ACTINOPHRYS 44%
#2	SAMPLES COLLECTED	NAUPLIUS LARVA 39%
#3		
ROTIFERS/LITER		9
MICROCRUSTACEA/LITER		47
ZOOPLANKTON ABUNDANCE (#/L)		107
VASCULAR PLANT ABUNDANCE		Very abundant
SECCHI DISK TRANSPARENCY (m)		1.4 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)	8.6	7.3
BACTERIA (E. coli, #/100 ml) #1		1
#2		< 1
#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None Hypolimnion volume (m^3) : None Anoxic volume (m^3) : None

			WASHBURN CORNER POND SPRINGFIELD		
	4 January 1995		30 August 1994		1994
DEPTH (m)	1.0		1.0		
pH (units)	6.2				
A.N.C. (Alkalinity)	5.2				
NITRATE NITROGEN	0.18		< 0.05		
TOTAL KJELDAHL NITROGEN	0.17		0.50		
TOTAL PHOSPHORUS	0.007		0.018		
CONDUCTIVITY (µmhos/cm)	60.4		61.2		
APPARENT COLOR (cpu)	44		65		
MAGNESIUM			0.70		
CALCIUM			4.1		
SODIUM			6.3		
POTASSIUM			0.25		
CHLORIDE	10		9		
SULFATE	6		3		
TN : TP	50		28		
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

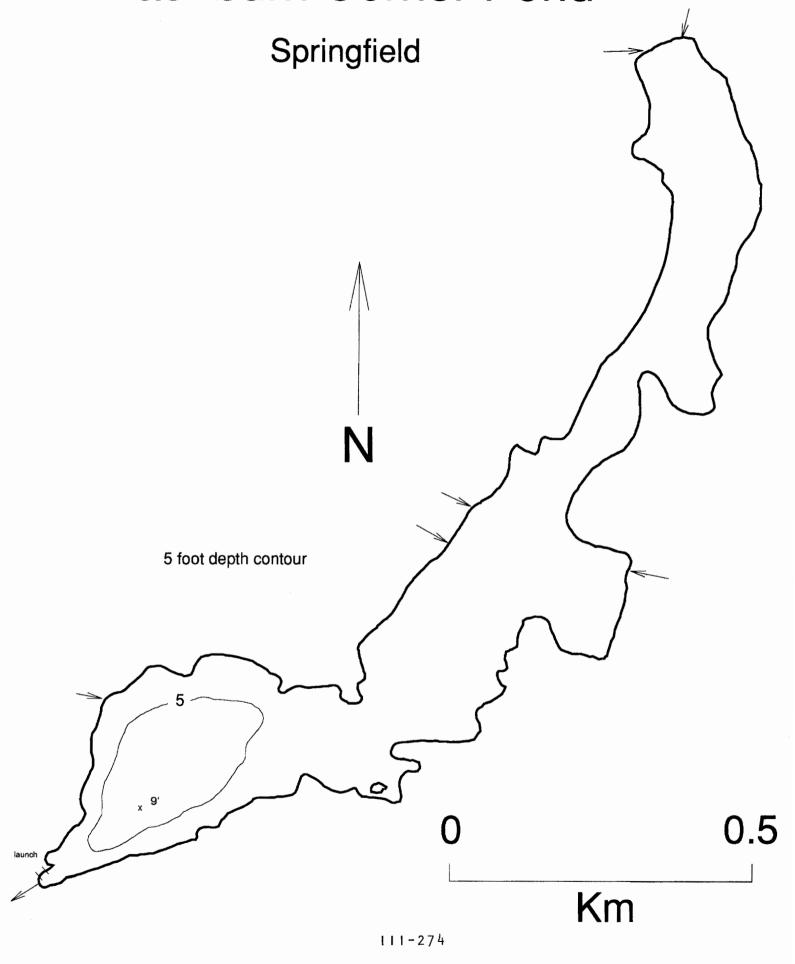
TROPHIC CLASSIFICATION: 1994

D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	3	6	1	10	Eutro.

COMMENTS:

- 1. AKA McDaniel Marsh or Bog Brook Pond.
- 2. This is a shallow, flooded wetland area that is managed by the Fish and Game Department as McDaniels Marsh Wildlife Management Area. It is listed in DES' Clean Lakes database as a wetland, not a lake.
- 3. Good boat launch site, managed by Fish & Game, but the area is not suitable for large motors due to the plant density.

Washburn Corner Pond



FIELD DATA SHEET

LAKE: WASHBURN CORNER POND

DATE: 08/30/94

TOWN: SPRINGFIELD

WEATHER: MOSTLY SUNNY & WARM

DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
0.1	19.0	7.4	79 %
1.0	19.0	7.3	78 %

SECCHI DISK (m): 1.4 VOB COMMENTS:

BOTTOM DEPTH (m): 1.4

TIME: 1125

*Dissolved oxygen values are in mg/L

Washburn Corner Pond Springfield weeds N weeds 0.5 Km 111-276

AQUATIC PLANT SURVEY

LAK	E: WASHBURN CORNER POND	TOWN: SPRINGFIELD	DATE: 08/30/94	
Key	PLANT	NAME	ABUNDANCE	
Key	GENERIC	COMMON	ABUNDANCE	
P	Pontederia cordata	Pickerelweed	Abundant	
N	Nymphaea	White water lily	Very abundant	
W	Potamogeton	Pondweed	Very abundant	
d	Dulichium arundinaceum	Three-way sedge	Sparse	
В	Brasenia schreberi	Water shield	Very abundant	
U	Utricularia	Bladderwort	Very abundant	
j	Najas	Bushy pondweed	Scattered	
Y	Nuphar	Yellow water lily	Common	

OVERALL ABUNDANCE: Very abundant

GENERAL OBSERVATIONS:

- 1. This is a dammed up brook through a wetland creating a shallow, very weedy pond. There was some limited open water in the southwestern (dam) end but much of the pond was non-navigable because of dense plant growth.
- 2. This area is managed for waterfowl.
- 3. The upper half of the pond had dense plant growth but was inaccessible by boat so plants were not listed.